



Construction

Conductor	Bare copper wire Gauge: AWG23
Insulation	FoamSkin PE (Foam polyethylene) Diameter: 1,4 mm
Assembly	Individually screened twisted pairs laid up together
Pair Screen	Aluminium/Polyester tape
Overall screen	Tinned copper wire braid
Outer sheath	Halogen free compound Colour: Blue

Technical characteristics

Outer diameter	7,1 mm
Weight	54 Kg/Km
Operating T^a (conductor)	Fixed installation: -20°C to +60°C During installation: 0°C to +50°C
Min. bending radius	Fixed installation: 4xD During installation: 10xD
Loop resistance	154 Ohm/Km
Insulation resistance	5000 MOhm*Km
Mutual capacitance	43 pF/m Approx.
Characteristic Impedance	100 Ohm Approx.
Velocity of propagation	79%
Propagation delay	Nominal 427 ns/100m
Test Voltage	1000 V
Transfer Impedance	50 mOhm/m (a 10 MHz)
Coupling attenuation	75 dB
Segregation class	c

Application

Screened halogen free Category 6A data transmission cable for Local Area Networks (LAN), Primary (Campus), Secondary (Riser), Tertiary (Horizontal). For Telephone Systems, Ethernet, Fast Ethernet and Gigabit Ethernet applications, 10BaseT, 100BaseT, 1000BaseT, 1GBase-T up to 1,000 Mbit/s. Suitable for PoE and PoE+ on a channel length of up to 100 m, TPDDI, ATM, CATV, IP cameras, broadband video, SOHO cabling.

* CPR:

Cable suitable for installation under the requirements of CPR (Construction Product Regulation (EU) No. 305/2011) according to the classification (Euroclass) specified in this document.

Standards / Properties

Ref. for construction/drawing	EN50173-1; EN50288-10-1, ISO/IEC11801; IEC61156-5 e IEEE802.3af/at/bt.
CPR Classification (Euroclass)	Dca-s2,d2,a1 (According to UNE-EN 50575)
Flame Retardant	UNE-EN 603332-1 (IEC 60332-1)

Halogen free

Low corrosivity

Low smoke emission

UNE-EN 60754-1 (IEC 60754-1)

UNE-EN 60754-2 (IEC 60754-2)

(pH \geq 4,3 ; conductivity \leq 10 μ S/mm)

UNE-EN 61034 (IEC 61034)



flame retardant



halogen free



low corrosivity



low smoke
opacity



electromagnetic
protection



Article table

Code	Cable	Supply
14450108	F/FTP Cat.6A 4x2xAWG23 LSHF	Drums 1000mts

Colour table

PAIR N°	Conductor A	Conductor B
1	Blue	White
2	Orange	White
3	Green	White
4	Brown	White

Electrical data

Frec.(MHz)	** Attenuation	*NEXT	*PSNEXT	**ACR	**PS-ACR	**ACRF	**PS-ACRF	*RL
1	1.8	100	97	98	95	105	102	-
4	3.3	100	97	97	94	105	102	27
10	5.1	100	97	95	92	97	94	30
16	6.5	100	97	94	91	93	90	30
20	7.2	100	97	93	90	91	88	30
31.2	9.1	100	97	91	88	87	84	30
62.5	13.2	100	97	87	84	81	78	30
100	17	100	97	83	80	77	74	30
125	19.2	95	92	76	73	75	72	26
155.5	21.7	93	90	71	68	73	70	26
175	23.1	93	90	70	67	72	69	25
200	25	92	89	67	64	71	68	25
250	28.3	90	87	62	59	69	66	24
300	31.5	89	86	58	55	67	64	24
400	37.2	87	84	50	47	65	62	23
500	42.5	86	83	44	41	63	60	22

Units: * = dB / ** = dB/100m

Frec.(MHz)

Frequency